

KUZ'MISHCHEV, Andrey Petrovich; GREBENNIKOVA, M.M., red.; SEVAST'YANOVA,
E.S., red.; VOROTILINA, L.I., tekhn. red.

[How to increase labor productivity in agriculture] Kak povysit' pro-
izvoditel'nost' truda v sel'skom khoziaistve. Novosibirsk, Novosibir-
skoe knizhnoe izd-vo, 1960. 75 p. (MIRA 14:7)
(Agriculture—Labor productivity)

GRASHCHENKOV, N.I., SEVAST'YANOVA, G.A.

Endocrine disorders in diencephalic affections [with summary in English]
Probl.endok., 1 gorm. 4 no.3:37-48 My-Je '58 (MIRA 11:8)

1. Iz kliniki nervnykh bolezney TSentral'nogo instituta usovershenstvovaniya vrachey (zav. kafedroy - chlen-korrespondent AN SSSR prof. N.I. Grashchenkov).

(DIENCEPHALON, diseases,
causing endocrine dis. (Rus))
(ENDOCRINE DISEASES, etiol., & pathogenesis,
diencephalic lesions (Rus))

IVCHENKO, Ye.G.; KANTOR, I.I.; KOSAREVA, L.A.; SEVAST'YANOVA, G.V.;
EYGENSON, A.S.

Grading crude oils of Bashkiria and Tataria. Trudy BashNII
NP no.1:5-19 '59. (MIRA 12:6)
(Petroleum--Analysis)

~~SECRET~~ KUNOV, G.V.
EYGENSON, A.S.; IVCHENKO, Ye.G.; KANTOR, I.L.; KOSAREVA, L.A.; SEYAST'YANOVA, G.V.

New refining methods for high sulfur-bearing crudes of Bashkiria.
Trudy Bash NII NP no.3:3-18 '60. (MIRA 14:4)
(Bashkiria--Petroleum--Refining)

34886

S/031/62/000/003/064/050
B149/3101

11.0100 (5419, 3019)

AUTHORS:

Bygenson, A. S., Ivchenko, Ye. G., Kantor, I. I., Sevast'yan-
ova, G. V.

TITLE:

Petroleum of new deposits in the Bashkirskaya ASSR

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 3, 1962, 152, abstract
32131 (Sb. "Khimiya svergaorg. soyedineniy, soderzhashchi kya
v neftrakh i nefteproduktakh. v. 4" M., Gostoptekhizdat, 1961,
100-102)

TEXT: The result of analyses of petroleum of high sulfur content from
different deposits of the Bashkirskaya ASSR shows that this petroleum can
be divided into three groups according to the distribution of S among the
fractions: (a) Petroleum with a small content of S in the gasoline frac-
tions ($\leq 1\%$) and a gradually and uniformly increasing content in the kero-
sene fractions and in the diesel fuel oils. (b) Petroleum with low content
of S in the gasoline fractions and with an infrequent increase of its con-
tent in the kerosene and diesel oil fractions. (c) Petroleum with consider-
able S content in the gasoline fractions ($\geq 0.5\%$) and with corresponding
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Petroleum of new ...

S/051/62/000/003/061/090
B149/B101

increase in the kerosene and diesel oil fractions. It is possible to manufacture fuels which comply with the GOST (GOST) from the first group of petroleum without any refining. Gasoline fractions of the second group are the only ones not requiring any further refining. Fuels manufactured from the third group all require special refining. [Abstracter's note: Complete translation.]

X

Card 2/2

IVCHENKO, Ye.G.; SEVAST'YANOVA, G.V.; GARIPOVA, L.Z.

Oils of the Novokhazino, Znamenka, and other fields of Bashkiria.

Trudy Bash NIINP no.5:230-238 '62.

(MIRA 17:10)

IVCHENKO, Yevgeniy Gordeyevna; SEVAST'YANOVA, Galina Vasil'yevna;
TITSKAYA, B.F., ved. red.; TROFIMOV, A.V., tekhn. red.

[Types of sour petroleums in Bashkiria] Sernistye i vyso-
kosernistye nefiti Bashkirskoi ASSR; spravochnaia kniga.
Moskva, Gostoptekhzdat, 1963. 232 p. (MIRA 16:4)
(Bashkiria--Petroleum--Analysis)

IVCHENKO, Ye.G.; SEVAST'YANOVA, G.V.; GARIPOVA, L.Z.

Oil of the Yusupovo field. Trudy BashNII NP no.6:63-67 '63.
(MIRA 17:5)

SEVAST'YANKOVA, G.V.; IVCHENKO, Ye.S.

Investigating a kerosene-gas oil fraction from Arlan crude.
Trudy BashNII NP no.6:66-75 '63.

Thermal stability of sulfur-bearing crude from Bashkiria.
Ibid.:75-79 (MIRA 17:5)

ACCESSION NR: AT4040447

S/2933/64/006/000/0005/0008

AUTHOR: Ivchenko, Ye. G.; Sevast'yanova, G. V.

TITLE: Petroleum from new fields in Bashkiria

SOURCE: AN SSSR. Bashkirskiy filial. Khimiya seraorganicheskikh soyedineniy, soderzhashchikhaya v neft'yakh i nefteproduktakh, v. 6, 1964, 5-8:

TOPIC TAGS: petroleum, petroleum composition, petroleum physical property, Soviet petroleum, Bashkir petroleum

ABSTRACT: The authors report the results of analyses of petroleum from four new sites in the Bashkir ASSR, carried out in 1960. They found that Saitovskoye petroleum contains 2.73% S, 16.9% tarry silica gels and 7.5% asphaltenes. The density is 0.885 and the viscosity is 23.0 centistokes (at 20C). The light fractions up to 200 and 300C account for 21 and 37.3%, respectively. Nurskoye petroleum contains 3.94% S, 60% tars and 3% paraffins. The density is 0.923 and the viscosity is 145.3 centistokes. The yield of the 200 and 300C fractions is 12.8 and 24%, respectively. Stakhanovskoye petroleum contains 2.45% S, 60% tars and 3.3%

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ACCESSION NR: AT4040447

paraffins. The yield of the 200 and 300C fractions is 21.4 and 36.8%, respectively. The presence of dissolved H_2S is characteristic of this petroleum. Voskresenskaya petroleum contains 1.32% S, 30% of the 200C fraction and 48% of the 300C fraction. The octane numbers of the distillates are 50-58. Possible industrial uses of the crude oils are discussed.

ASSOCIATION: Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti (Bashkir Scientific Research Institute for Petroleum Refining)

SUBMITTED: 00

DATE ACQ: 04Jun64

ENCL: 00

SUB CODE: FP

NO REF SOV: 000

OTHER: 000

Card 2/2

IVCHENKO, Ye.G.; SEVAST'YANOVA, G.V.; GARIPOVA, L.Z.; KUZILOVA, E.T.

Oil of the Sergeyevka field. Trudy BashNII NP no.7:4-9 '64.
(MIRA 17:9)

ACCESSION NR: AT4043271

S/2744/64/000/007/0009/0014

AUTHOR: Sevast'yanova, G. V., Ivchenko, Ye. G.

TITLE: Aromatic hydrocarbons in Arlan petroleum fractions obtained at 180-200 and 200-300C

SOURCE: Ufa. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefli. Trudy*, no. 7, 1964. Sernisty*ye nefli i produkty* ikh pererabotki (Sour crude oil and products of refining), 9-14

TOPIC TAGS: hydrocarbon, aromatic hydrocarbon, Arlan petroleum, alkylbenzene, tetra-substituted alkylbenzene, trisubstituted alkylbenzene, sulfur, absorption spectrum, aluminum oxide, chromatography, gas-liquid chromatography, petroleum refining

ABSTRACT: Arlan petroleum fractions obtained at 180-200 and 200-300C were investigated by gas-liquid chromatography. Tabulated data show that, in the 180-200C aromatic fraction, there was a considerable amount of tetrasubstituted alkylbenzene and a smaller amount of trisubstituted alkylbenzene. After removing the sulfur compounds from the 200-300C fraction, the product (accounting for 80.69% of the aromatic fraction) had the following characteristics: density 0.8904, refractive index 1.5082, molecular weight 193, sulfur content 0.02%. This fraction was then subjected to chromatography over aluminum oxide

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ACCESSION NR: AT4043271

and the mono and bicyclic aromatic hydrocarbons were separated. The monocyclid hydrocarbons were chromatographed again to yield narrow fractions based on the refractive index, and these narrow fractions were subjected to vacuum fractionation to obtain still narrower fractions. Finally, the structural composition of five-degree fractions was determined by absorption spectra over an ultraviolet light range of 230-290 mμ. Spectral analysis of the narrow fractions obtained from a fraction with a refractive index n_D^{20} of 1.51-1.52 showed that 1, 3-, 1, 3, 5- and tetraalkyl-benzenes also predominate in these fractions. The narrow five-degree fractions obtained from fractions with n_D^{20} - 1.50-1.51 and n_D^{20} = 1.51-1.52 had a very similar structural composition. Depending on the boiling temperature and molecular weight, the hydrocarbon fractions forming each structural group differ in chain length, degree of branching or ring formation of substituents. Orig. art. has: 3 figures and 4 tables.

ASSOCIATION: Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti, Ufa (Bashkir Scientific Research Institute for Petroleum Refining)

SUBMITTED: 00

ENCL: 00

SUB CODE: CC, FP

NO REF SOV: 003

OTHER: 002

2/2

ACCESSION NR: AT4043272

S/2744/64/000/007/0015/0019

AUTHOR: Ivchenko, Ye. G., Eygenson, A. B., Sevast'yanova, G. V., Garipova, L. Z.

TITLE: Quality of commercial Romashkin petroleum

SOURCE: Ufa. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefiti. Trudy*, no. 7, 1964. Sernisty*ye nefiti i produkty* ikh pererabotki (Sour crude oil and products of refining), 15-19

TOPIC TAGS: petroleum, Romashkin petroleum, sulfur content, octane rating, petroleum residue, petroleum refining

ABSTRACT: It was found experimentally that the sulfur content of Romashkin petroleum had increased from 1.6% (in 1956) to 1.8-2.0% (1962) due to a change in the proportion of crude oils from different sites within the Romashkin area. Since an increase in sulfur content markedly affects the quality of petroleum products, the 1962 petroleum sample was further investigated for sulfur content in the various fractions. Results are tabulated and the distribution of sulfur in narrow fractions is plotted against temperature (see the

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ACCESSION NR: AT4043272

Enclosure). The total content of fractions obtained at 200 and 300C remained almost unchanged, as did the octane characteristics of the benzene distillates obtained from the 1962 sample. Fractions above 270C had a higher sulfur content than in 1956. The sulfur content of the benzene fractions was low, while that of the distillates of diesel fuel and residues was increased. An increase in the sulfur content of commercial petroleum by 0.26% causes the yield of white products to decrease by 1.5%. Investigation of the sulfur content in the petroleum residues showed that fractions taken below 350C had a lower sulfur content than specified by the standards, but higher by 0.5% than in the analogous residue from a 1956 sample. When processed in a cracking plant, this residue gave a low-standard fuel. The sorting of petroleum according to the sulfur content is absolutely essential for planning the adequate technological conditions to obtain high-grade products. Orig. art. has: 1 figure and 4 tables.

ASSOCIATION: Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefi, Ufa
(Bashkir Scientific Research Institute for Petroleum Refining)

Card 2/4

ACCESSION NR: AT4043272

SUBMITTED: 00

ENCL: 01

SUB CODE: FP

NO REF SOV: 003

OTHER: 000

Card 3/4

ACCESSION NR: AT4043272

ENCLOSURE: 01

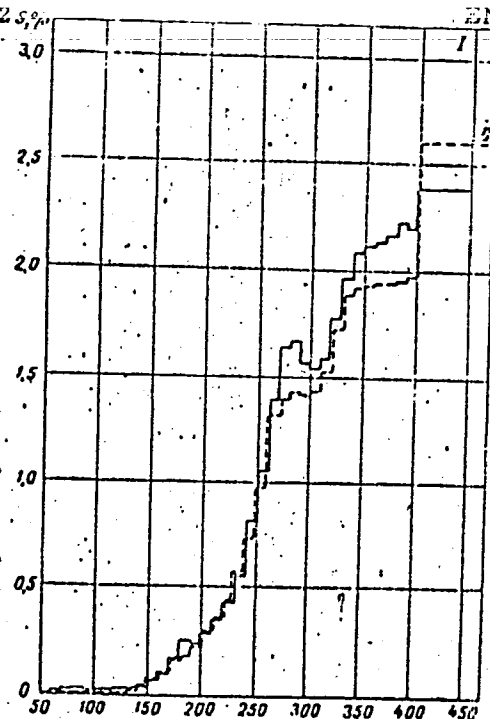


Fig. 1. Distribution of sulfur in 10-degree fractions of Romashkin petroleum: I - 1962; II - 1956. Abscissa = temperature in °C.

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IVCHENKO, Ye.O.; SEVAST'YANOVA, G.V.; GARIPOVA, L.Z.

Petroleum from the Karacha-Yelga oil field. Khim. i tekhn. topl.
i masel 10 no.10:16-18 O '65. (MIRA 18:10)

1. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke
nefti.

FEOKTISTOV, I.G.; TOMILOV, A.P.; SEVAST'YANOVA, I.G.

Relation between the acrylonitrile electroreduction products and
the proton-donor properties of solution. Elektrokimiia 1 no.10:1300-
1303 0 '65. (MIRA 18:10)

1. Institut elektrokhimii AN SSSR.

TOMILOV, A.P.; SEVAST'YANOVA, I.G.; DUBOV, S.S.

Nature of conjugation in esters of azodicarboxylic acid.

Zhur.ob.khim. 33 no.3:866-867 Mr '63.

(MIRA 16:3)

(Formic acid)

(Esters)

(Conjugation (Chemistry))

SOV/120-59-2-37/50

AUTHORS: Salamandra, G.D., Naboko, I.M. and Sevast'yanova, I.K.
TITLE: A Pulsed Source of Frequently Repeating Flashes of Light
(Impul'snyy istochnik chasto povtoryayushchikhsya
vspyshek sveta)

PERIODICAL: Priory i tekhnika eksperimenta, 1959, Nr 2,
pp 124-127 (USSR)

ABSTRACT: Demountable pulsed lamps of original construction are described. Using these lamps, cinephotography may be carried out at 100,000-150,000 frames/sec. The exposure does not exceed 5×10^{-7} sec. The construction of a linear source is shown in Fig 1a. The discharge takes place between the tungsten electrode, 9, and the brass plate, 10. The length of the spark gap is 20 mm. The tungsten electrode is connected to the lining of the condenser, 4, via the contact ring, 14. The high voltage is applied via the terminals, 2 and 12. The lamp was filled with hydrogen at a pressure of one atm. In the visible part of the spectrum the emission of the lamp is continuous in the interval 4000-6500 Å. The ceramic condensers used had a capacity of 0.0052 µF and the working voltage was 25 kV. Hydrogen is

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SOV/120-59-2-37/50

A Pulsed Source of Frequently Repeating Flashes of Light

preferred to xenon because deionisation is faster in hydrogen. The length of the lamp is about 30 cm. The lamps have been used to investigate combustion processes in explosive mixtures. The basic circuit for synchronising the explosion with the illuminating flashes is shown in Fig 2. A battery of condensers C_1 , whose capacity is $1.05 \mu F$, is charged up to 22-25 kV. The spark gap A is so chosen that the system is in an "expectation" state. The discharge is initiated by the shutter plate, moving in the direction of the arrow, which closes the primaries of the transformers T_1 and T_2 . When the primary of the transformer T_1 is closed a spark is produced across the spark gap A. The condenser battery C_1 then discharges through R_1 and charges up the ceramic condenser of the lamp. The repetition frequency of the flashes depends on the magnitude of R_1 . This frequency does not remain constant: the greater the ratio of the capacity of C_1 to that of the lamp condenser the smaller is the change in the frequency and the greater is the total number of flashes in the series. In the case when this ratio is

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A Pulsed Source of Frequently Repeating Flashes of Light
about 200 the total number of illuminating flashes is
about 500. The closure of the secondary of the trans-
former T₂ fires the explosive mixture to be investiga-
ted. By adjusting the position of contacts, the
flashes may be synchronised with a particular part of
the explosive process. Typical photographs are shown
in Figs 3-5. A.S. Predvoditelev and Kh.S. Valiyev
are thanked for interest and assistance respectively.
Card 3/3 There are 5 figures and 9 references, of which 4 are
Soviet and 5 are English.

ASSOCIATION: Energeticheskiy institut AN SSSR
(Power Institute, Ac. Sc. USSR)

SUBMITTED: April 13, 1958

PHASE I BOOK EXPLOITATION SOV/4913

Salamandra, Georijetta Davydovna, Tat'yana Valerianovna Bazhenova, Sergey Grigor'yevich Zaytsev, Paa Ivanovich Solodukhin, Ideya Michaylovna Baboko, and Irina Konstantinovna Sevast'yanova.

Nakotoryye metody issledovaniya vysochego davleniya i izmeneniya k izmeneniyu formirovaniya detonatsionnoy volny (Some Research Methods for Transient Processes and Their Application to the Study of Detonation-Wave Development) Moscow, Izdatvo AN SSSR, 1960. 91 p. Errata slip inserted. 5,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Energeticheskii institut Imeni G. M. Krzhizhanovskogo.

Resp. Ed.: A. S. Predvoditel'ev, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: Ia. A. Klimovitskiy, Tech. Ed.: V. Karpov.

PURPOSE: This book is intended for engineers and scientists engaged in developing research techniques and performing experimental

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CONTENTS: The book contains the results of original research on methods for investigating transient combustion processes and on the development of detonations under various gasdynamic conditions. The book reviews circuits of spark discharge apparatus and circuits for synchronizing a series of illuminating flashes with the process being investigated. Pulse light sources operating in the regime of frequently repeated flashes are described. A description is also given of simple apparatus designed by the authors for obtaining series of Schlieren photographs with a frequency of 10,000 to 100,000 frames per second for exposures of the order of 10⁻⁶ sec permitting the synchronization of the exposure with an arbitrary process. The construction is shown and an analysis is given of the operation of a piezoelectric pressure transducer which permits recording of pressure without distortions the shape of a pressure pulse in the case of gasdynamic disturbances.

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With the aid of the investigation methods developed, a detailed study was undertaken of the mechanism of a detonation occurring during propagation of a flame in a tube and of supersonic flow of gas mixtures capable of reaction in a shock tube. The first chapter was written by G. D. Salamandra; in it a detailed review of various methods used to produce spark photographs of transient processes is given. Certain difficulties which had to be met in the construction of the apparatus for such measurements and methods for overcoming them are described. The second chapter, written by S. G. Zaytsev, describes methods for measuring rapidly varying pressures, developed by the Power Engineering Institute of the Academy of Sciences USSR for investigation of the state of gas in shock tubes. The methods have found wide application. The third chapter presents the results of the investigations conducted with the aid of the methods discussed on the mechanism of the development and propagation of detonation waves under various hydrodynamic conditions. These investigations were recently completed at the laboratory for combustion physics by T. V. Bazhenova, G. D. Salamandra, N. I. Solodukhin, S. G. Zaytsev, I. M. Baboko, and I. K. Sevast'yanova. Of particular interest

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are those investigations which pertain to the conditions of compatibility of the hydrodynamic state of the medium and the chemical process. A. S. Predvoditel'ev, Professor, Corresponding Member of the Academy of Sciences USSR, wrote the preface. There are 79 references: 41 Soviet (3 of which are translations), 22 English, 13 German, and 3 French.

TABLE OF CONTENTS:

Preface [Predvoditel'ev, A. S.]	3
Ch. I. High-Speed Spark Exposure	5
1. Spark discharge	5
Efficiency of a spark discharge as a light source as a function of the electric-circuit parameters	7
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SALAMANDRA, G.D.; SEVAST'YANOVA, I.K.

Apparatus for high-speed spark photography. Inzh.-fiz.zhur. no.9:31-
36 S '60. (MIRA 13:9)

(Motion-picture photography, High-speed)

SEVASTYANOVA, I. K.

- BAZHENOVA, T. V. - "Evaluation of time of relaxation of carbon dioxide dissociation according to shock tube experiments", and "Determination of the dissociated CO₂ flow condition after the normal shock on the rarefaction wave arising while flowing around a protuberant angle"
- GOLDENBERG, S. A. - "Ignition in the flow"
- KHITRIN, Lev Nikolayevich - "Diffusion effect on ignition characteristics of gas mixtures ignited by a heated surface"
- KHORRE, V. G. and KOZLOV, G. I. - "One-impulse shock tube investigation of the kinetic thermal decomposition of methane"
- KOZLOV, G. I. - "Calculation of normal rate of flame propagation of methane and some other hydrocarbons"
- LOBASTOV, U. S., and BAZHENOVA, T. V. - "Research on absorption of radio waves by air following the shock wave"
- NABOKO, I. M. - "The problem of ignition in supersonic gas flow decelerated at an obstacle"
- SALAMANDRA, G. D., and SEVASTYANOVA, I. K. - "Amplification of the shock waves during transition through the flame front", and "Formation of weak shock waves before the flame front and their role in organizing the process of explosive mixture burning in tubes."

Reports to be submitted for the 9th Intl. Symposium on Combustion, Ithaca, New York
27 Aug - 1 Sep 1962.

All affiliated with Inst. of Energetics im. G. M. Krzhizhanovskiy, Moscow.

SEVAST'YANOVA, I. K.

Ukrayins'kyi fizichnyy zhurnal, v. 8, no. 4, Apr. 1963, 498-500.

S/185/63/008/004/015/015

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A scientific conference devoted to problems of evaporation, combustion, and gas dynamics of dispersed systems was held at Odessa State University imeni I. I. Mechnikov from 1 to 6 October 1962.

Sixty-five papers were presented, 24 of which dealt with the theory and practice of production and stability of aerosols and the effect on these processes of various physicochemical factors; the other 41 dealt with working processes in combustion chambers of various power plants. Some of the titles were "Investigating oxidation processes of high hydrogenous fuels by oxygen from compressed air," S. S. Kramarenko; "Burning of metal suspension in hydrocarbon fuels," D. I. Polishchuk, L. P. Latonina, and V. L. Yankevich; and "Experimental investigation of two-phase flow in axially-symmetrical nozzles," G. A. Komov. Included also were discussions of the methods of solving equations of dissociating gas flow in ducts and gas dynamic calculations for jet engines, G. A. Varshavsky, E. Ya. Guber, and A. P. Kisel'ov; the formation of plane shock waves in shock tubes and passage of shock waves through a flame front, D. V. Fedoseyev, G. D. Sadamandr, and I. K. Sevast'yanova; experimental results on the flow of combustion products of a methane-oxygen mixture around cambered surfaces with diffraction of detonation waves, L. G. Gvozd'ova; the stability of a steady-state flame front S. K. Aslanov; the relationship between the flame and the diameter of a burning drop, V. O. Fedoseyev; and theoretical and experimental investigation of burning of spherical metal particles, by L. A. Klyachko.

[AS]

Card 2/2

S/0124/63/000/007/B022/B023

ACCESSION NR: AR3006254

SOURCE: RZh. Mekhanika, Abs. 7B106.

AUTHOR: Salamandra, G. D.; Bazhenova, T. V.; Sevast'yanova, I. K.

TITLE: The role of weak shock waves in the formation of detonations

CITED SOURCE: Tr. Odessk. un-ta. Ser. Fiz. n., v. 152, no. 8, 1962, 91-94

TOPIC TAGS: shock wave, detonation, combustion

TRANSLATION: The authors studied the process of transition of slow combustion into a detonation. The experiments were carried out in pipes of circular cross-section 14 to 42 mm in diameter and of square cross-section (36.5 mm x 36.5 mm). The combustible mixtures were of the hydrogen-oxygen, methane-oxygen, and acetylene-oxygen type, since in these mixtures shock waves are formed a short distance from the point of inflamation. The combustive priming was at the closed end of the pipe. Observations were made of the propagation of the flame and the process of accumulation of weak perturbations proceeding from the flame into a shock wave. The process was photographically scanned and also recorded by high-speed photography with a frequency of 100,000 frames per second. Determinations were made of the distances

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ASSANOVA, Margarita Petrovna; AFONINA, Lyubov' Petrovna; IL'INA, Nina Ivanovna; SVETOZARSKAYA, Galina Fedorovna; SEVAST'YANOVA, Kamila Alekseyevna; GOLUBEVA, I.A., red.; RESHETIN, G.V., tekhn. red.

[Advanced practices in floriculture and landscaping] Pere-
dovoi opyt v tsvetovodstve i ozelenenii; putevoditel'. Mo-
skva, 1962. 35 p. (MIRA 16:5)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.
Pavil'on "TSvetovodstvo i ozeleneniye."
(Floriculture--Exhibitions)
(Landscape gardening--Exhibitions)

LAPPO, A.A.; KATKOVA, M.I., metodist; SEVAST'YANOVA, K.A.

Exhibitions and displays of special items. Inform.biul.VDNKH no.3:
28-31 Mr '64. (MIRA 17:3)

1. Glavnyy metodist pavil'ona "Tekhnicheskiy kul'tury" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Lappo).
2. Pavil'on "Khraneniye i pererabotka zerna" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Katkova).
3. Zaveduyushchaya oranzhereyey pavil'ona "Tsvetovodstvo i ozeleneniye" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Sevast'yanova).

KARIMOVA, Z.Kh.; SEVAST'YANOVA, K.I.; SAVINA, K.A.; VAYNER, L.M.

Bactericidal action of propolis extract on some pathogenic
micro-organisms. Report No.1. Kaz.med.zhur. 41 no.1:71-73
Ja-F '60. (MIRA 13:6)

1. Iz kafedry mikrobiologii (zav. - dotsent Z.Kh. Karimova)
Kazanskogo meditsinskogo instituta i laboratorii patofizio-
logii (zav. - starshiy nauchnyy rabotnik I.F. Kazakov) Kazan-
skogo nauchno-issledovatel'skogo veterinarnogo instituta.
(PROPOLIS) (MICRO-ORGANISMS, PATEOGENIC)

SEVAST'YANOVA, K.I.

New instruments used for the analysis of gases in the German
Federal Republic. Zav.lab. 27 no.2:299-233 '61. (MIRA 14:3)
(Germany, West-Gases-Analysis)

SEVAST'YANOVA, K.I.

Determining the moisture content of air and gases. Izv. tekhn.
no.6:52-55 Je '63. (MIRA 16:8)

(Hygrometry)

TALYZIN, F.P., prof.; SEVAST'YANOVA, L.A.

Morphological changes in the cornea under the influence of
intermittent light. Trudy 1-go MMI 41:166-170 '65.

Histochemical changes in the cornea injured by intermittent
light. Ibid.:171-174 (MIPA 18:12)

1. Chlen-korrespondent AMN SSSR (for Talyzin).

SEVAST'YANOVA, L. A.,

"Improving the Winter Resistance of Hybrid Pear Trees by Appropriate Training at an Early Development Stage." (Dissertation for Degree of Candidate for Agricultural Sciences) Min Higher Education USSR, Fruits and Vegetables Inst imeni I. V. Michurin, Michurinsk, 1955

SO: M-1036 28 Mar 56

SEVAST'YANOVA, L.A.

Effect of different ecological and geographical conditions on the
winter hardiness of pear seedlings. Trudy Bot. sada Zap.-Sib. fil.
AN SSSR no.2:97-103 '57. (MIRA 11:10)
(Pear) (Plants--Frost resistance)

SEVAST'YANOVA, L.A.

Studies on the effect of ionizing radiation on the accumulation
of chlorophyll in corn leaves. Trudy TSSBS no.4:129-138 '60.
(MIRA 15'4)

(Corn (Maize)) (Chlorophyll)
(Plants, Effect of radiation on)

SEVAST'YANOVA, L.A.

Winter hardiness of pears in Novosibirsk Province. Trudy TSSBS
no.4:159-165 '60. (MIRA 15:4)
(Novosibirsk Province--Pear--Frost resistance)

SEVAST'YANOVA, L.A.; SKVORTSOVA, A.V.

Some features of frost resistance in woody plants in the forest-
steppe part of Western Siberia. Trudy TSSBS no.5:11-23 '61.

(MIRA 15:3)

(Siberia, Western--Woody plants--Frost resistance)

SEVAST'YANOVA, L.A.

M-5

USSR/Cultivated Plants - Fruits and Berries.

Abstr Jour : Ref Zhur - Biol., No 3, 1958, 10987

Author : Sevast'yanova, L.A.

Inst : -

Title : Incubating Frost Resistance in Pear Hybrids at Early Stages of Development.

Orig Pub : Vestn. s.-kh. nauki, 1956, No 3, 65-72

Abstract : New frost-resistant pear varieties are being developed in the Chief Nursery (in Michurinsk) together with vegetative and field hybridization under guidance. The Ussuri pear is the frost-resistant mentor for the pears, and the hawthorn and the black-fruit rowan are also used. Frost-resistance is developed in the seedlings through the influence of lower temperatures on the seeds and seedlings in the beginning of the growth period. Frost-resistance is increased through the effect of the short day on hybrid seedlings. The best results are achieved by the combined

Card 1/2

L 41652-86 EED/ET(1)/EE(2)-2/T/ET(2) IJP(c) WC
 ACC NR: AP6031119 SOURCE CODE: UR/0217/66/011/002/0295/0298 52

AUTHOR: Sevast'yanova, L. A.

ORG: People's Friendship University im. P. Lumumba (Universitet druzhba narodov)

TITLE: Effect of pulsed ruby laser radiation on the cornea

SOURCE: Biofizika, v. 11, no. 2, 1966, 295-298

TOPIC TAGS: eye, medical laser, ruby laser, radiation biologic effect, mouse, neurology

ABSTRACT: The author and F. F. Talyzin previously studied the effect of scattered pulsed white light on the eyes of mice and found morphological and histochemical changes in the cornea. The present article gives the results of histological and histochemical investigations of the effects of scattered pulsed ruby laser radiation on the cornea of white mice. The animals underwent single irradiation (a series of 1, 3, 5, 7, 9, 11, 13, 15 or 25 pulses separated by 10-minute intervals), as well as repeated irradiation (several such series of pulses, with a 24-hour interval between series). It was established that scattered pulsed ruby laser radiation causes changes in the cornea of white mice, with the degree of these changes being determined by the radiation dose. There apparently exists

Card 1/2

L 41652-66
ACC NR: AP6031119

a certain threshold radiation energy (approximately 0.05-0.1 J/sq cm) below which there is practically no damage in the cornea. The results obtained in repeated exposures to radiation indicate a cumulative effect. Thus, in the case of repeated exposures to series of two pulses each (doses known to be below the threshold energy), both the changes in the cornea and the recovery times are approximately the same as after exposure to a single series of 5-7 pulses. Orig. art. has: 5 figures. [JPRS: 36,932]

SUB CODE: 06 / SUBM DATE: 12Feb65 / ORIG REF: 005 / OTH REF: 006

Card 2/2 *mT*

SEVAST'YANOVA, L.S., inzh.

At the Blagoveshchensk Oil Extraction Plant. Masl.-zhir.prom.
27 no.3:46-47 Mr '61. (MIRA 14:3)
(Blagoveshchensk (Amur Province)—Oil industries)

USSR/Medicine - Physiology

FD-1330

Card 1/1 : Pub 33-8/25

Author : Lebedev, A. A. and Sevast'yanova, L. V.

Title : Conditioned reflex changes in diuresis in a dog with a transplanted kidney

Periodical : Fiziol. zhur. 4, 441-444, Jul/Aug 1954

Abstract : Experiments on dogs were conducted to determine how a transplanted kidney reacts to the regulating influence of the cortex. The cerebral cortex regulates urination of a transplanted kidney for forming temporary bonds of positive and negative significance. The ultimate effects of positive and differentiated irritants depend on the magnitude of initial urination. Positive conditioned reflex increases urination and at the same time reduces the specific gravity of urine; it also decreases concentration of creatine and chlorides. Graphs. Six Soviet references.

Institution : Chair of Pharmacology of Ivanovo State Medical Institute

Submitted : October 10, 1952

DEMUSENKO, P. M., SEVAST'YANOVA, M. I.

Rotation of Crops

Sowing grass mixtures without companion crops in a system of vegetable and grass crop rotation. Sad i og., no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, _____ 1953. Unclassified.

SEVAST'YANOVA, N. I.

"The Creation and Utilization of Turf Cover for Vegetable Crops on Podzolized and Argillaceous Soils of Moscow Oblast." Cand Agr Sci, Moscow Order of Lenin Acad of Agriculture imeni Timiryazev, Moscow, 1954. (KL, No 3, Jan 55)

Survey of Scientific and Technical Dissertation Defended at USSR Higher Educational Institutions (13)
SO: Sum, No. 5:8, 29 Jul 55

USSR / Weeds and Weed Control.

N

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 1949

Author : Sevast'yanova, M. I.

Inst : Not given

Title : Herbicides in Vegetable Farming

Orig Pub : Sad i ogorod, 1958, No 4, 23-25

Abstract : In experiments made by the Scientific Experimental Institute of Vegetable Farming excellent results were obtained in the treatment of carrot sowings in the 2-3 leaf stage, using tractor kerosene at the rate of 300 kg/hectare. Rows were sprayed, and in between the rows the soil was treated with cultivators. 98-100% of the weeds were killed. As a result of application of chloro-PC on the 5-6th day after seeding of the carrots (12 kg/hectare of

Card 1/4

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 1949

active ingredients), 53% of the weeds perished. The harvest of carrots on the section treated with chloro-PC was higher than in the control where the vegetables were twice weeded by hand. In treating the rows only with a KRN-2,8 appliance on the cultivator, the herbicide dose could be less than half. In the treatment of onion seeds before sprouts appeared (on the 8th day after sowing) with 16 kg/hectare of chloro-PC, 500.2 centner/hectare of seedlings were obtained, and in the control - 4.8 centner/hectare 8.2% of the weeds were killed. Daisies and everlasting were resistant. On the sowings of carrots and onions excellent results were obtained from the application of TCA. In the treatment of carrots

Card 2/4

USSR / Weeds and Weed Control.

N

Abs Jour : Ref Zhur- Biologiya, No 1, 1959, No. 1949

onion 15.2-22.6% higher than in the control.
-- L. D. Stonov

Card 4/4

15

SEVAST'YANOVA, Mariya Ivanovna, kand. sel'khoz. nauk; SERGEYEV, V.I.,
red.; BELOVA, N.N., tekhn. red.

[Herbicides in vegetable gardening] Gerbitsidy v ovoshchevod-
stve. Moskva, Sel'khozizdat, 1963. 55 p. (MIRA 16:6)
(Herbicides) (Vegetable gardening)

SEVAST'YANOVA, M. V.

"Optics in Military Affairs," Moscow, 1945.

1. SEVAST'YANOVA, N. A.
2. USSR (600)
4. Bacteriophagy
7. Inactivation and reactivation of phage. Veterinariia 29 no. 12, 1952
9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

SEVAST'YANOVA, N.A.; PAKHOMOVA, A.M., mladshiy nauchnyy sotrudnik.

~~SEVAST'YANOVA, N.A.~~
Pine needle infusion in the treatment of gastrointestinal diseases
in calves. Veterinariia 32 no.12:57-58 D '55. (MIRA 9:4)

1. Novosibirskaya NIVOS.
(CALVES--DISEASES)(VETERINARY MATERIA MEDICA AND PHARMACY)(DIGESTIVE
ORGANS--DISEASES)

SEVAST'YANOV, V.D.; SEVAST'YANOVA, N.I.

Silicate glue as a medium for permanent specimens of parasitic arthropods. Med.paraz.i paraz.bol. 27 no.6:738-739 N-D '58.
(MIRA 12:2)

1. Iz kafedry zoologii bespozvonochnykh Odesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova i Odesskogo nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii imeni I.I. Mechnikova.

(INSECTS--COLLECTION AND PRESERVATION)

SEVAST'YANOVA, N. I., GERASIMOVA, V. I. and LEONIDOVA, K. O.

"Materials on the Study of the State of Infection of Suctorial
Arthropods from Rodents in Nature with Infectious Agents which
are Pathogenic for Man."

Tenth Conference on Parasitological Problems and Diseases with Natural
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of
Sciences, USSR, Moscow-Leningrad, 1959.

Odessa Institute of Epidemiology and Microbiology

SEVAST'YANOVA, N. I.

"Materials for the Cultivation of *Trichomonas Vaginalis*."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Odessa Scientific-Research Institute of Epidemiology and Microbiology

L 32473-65 EWT(m)/EPA(s)-2/EPF(c)/T/EWP(j)/EPR/EWA(c) Pc-4/Pr-4/Ps-4/Pt-10
RPL WW/RM

ACCESSION NR: AP5007568

S/0020/65/160/005/1101/1103

AUTHOR: Spitsyn, Vikt. I. (Academician, AN SSSR); Kolli, I. D.; Rodionov, R. A.;
Sevast'yanova, T. G.

TITLE: Synthesis and disproportionation reactions of trifluoroborazane derivatives

SOURCE: AN SSSR. Doklady, v. 160, no. 5, 1965, 1101-1103

TOPIC TAGS: borazane, trifluoroborazane, trifluoroborazane derivative, nitrogen substituted derivative, boron nitrogen polymer, synthesis, disproportionation reaction, borazene, difluoroborazene derivative

ABSTRACT: A method was developed for synthesizing and purifying methyl and ethyl derivatives of trifluoroborazane, BF_3NH_3 , and the thermal disproportionation of these derivatives was studied. The organic derivatives of BF_3NH_3 are especially interesting as potential starting materials for preparing thermally stable inorganic polymers with a B-N bond in the main chain. The newly developed method of synthesis was simpler and more reliable than those described in the literature. Trifluoroborazane and its N-methyl and ethyl substituted derivatives were prepared with 82-97% yields by reacting boron trifluoride-diethyl ether in an ethyl ether solution at 5-10°C.

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ACCESSION NR: AP5007568

2

with a corresponding alkyl amine. The products were purified by fractional distillation, mostly in a vacuum, without decomposition. Boiling and melting points of the purified compounds were determined. The melting point of BF_3NH_3 was found to be $152-153^\circ\text{C}$, a value which disagreed with data in the literature. On heating, BF_3NH_3 decomposes into ammonium fluoroborate and boron nitride. However, disproportionation of the N-ethyl substituted derivatives of BF_3NH_3 led to N-ethyl substituted difluoroborazenes. This fact indirectly confirmed the assumption that BF_3NH_3 disproportionation occurred in three steps, involving the borazene mechanism, although the intermediate products BF_2NH_2 and $(\text{BFNH})_n$ were not identified. The disproportionation reaction of N,N-diethyl-B,B-trifluoroborazane, $\text{BF}_3\text{NH}(\text{C}_2\text{H}_5)_2$, at $240-300^\circ\text{C}$, in the presence of certain metals (Al, Mg, Zn,) or without metals, produced N,N-diethyl-B,B-difluoroborazene, $\text{BF}_2\text{N}(\text{C}_2\text{H}_5)_2$, in various yields. Other reaction products were either N-diethylammonium tetrafluoroborate, or hydrogen, or both, depending on conditions. In the presence of sodium, disproportionation yielded diborane, resulting from a break of the B-N bond. Orig. art. has: 3 tables and 5 formulas. [JK]

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University); Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, Academy of Sciences SSSR)

Card 2/3

L 32473-65

ACCESSION NR: AP5007568

SUBMITTED: 30Sep64

ENCL: 00

SUB CODE: GC

NO REF SOV: 005

OTHER: 005

ATD PRESS: 3204

Card 3/3

SPITSYN, Vik^t.I., akademik; KOLLI, I.D.; RODIONOV, R.A.;
SEVAST'YANOVA, T.G.

Conductance of aqueous and nonaqueous solutions of trifluoro-
borazane. Dokl. AN SSSR 165 no.2:341-343 N '65.

(MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet i Institut fizicheskoy
khimii AN SSSR.

Sevast'yanova, V. V.

✓ The utilization of phosphorus from superphosphate by wheat on carbonate chernozem of the steppe portion of Crimea. V. V. Sevast'yanova. *Pochvovedenie* 1956, No. 2, 66-74. ~~Comparative field~~ tests were conducted with granular superphosphate vs. the powd. form alone and mixed with $(\text{NH}_4)_2\text{SO}_4$ or NH_4NO_3 (by using the P^{32} isotope) on winter wheat. The powd. form proved to be superior to the granular, and the best of all was the powd. form mixed with NH_4NO_3 . By applying the superphosphate at the termination of tillering, the plants utilized only 20% of the added phosphate, the rest came from the native soil phosphate. 17 references.

Agri

J. S. Joffe

SEVAST'YANOVA, V.V. • TKACH, L.A.

Efficiency of the use of urea. Khim.prom. [Ukr.] no.2:34-35 Ap-Je
'65. (MIRA 18:6)

SEVAST'YANOVA, Ye.K., mladshiy nauchnyy sotrudnik; RACHINSKIY, A.A., kandidat sel'skokhozyaystvennykh nauk; GAVRILENKO, D.M., mladshiy nauchnyy sotrudnik; TOGOYEV, I.N., otvetstvennyy redaktor; MALENIN, V.N., redaktor; TEODOROVICH, L.D., redaktor; PAZDZERSKIY, A.N., redaktor; DONSKOY, P.V., redaktor; LYUBECHANSKAYA, N.I., redaktor izdatel'stva; GOR'KOVA, Z.P., tekhnicheskii redaktor

[Prospective plan for the development of a collective cotton farm; the Stalin collective farm of the Buvaids District, Fergana Province]
Perspektivnyi plan razvitiia khlopkoseiushchego kolkhoza; kolkhoz imeni Stalina Buvaidskogo raiona Ferganskoi oblasti. Tashkent, 1956.
125 p. (MLRA 9:12)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut ekonomiki.
 2. Institut ekonomiki Akademii nauk Uzbekskoy SSR (for Sevast'yanova)
 3. Institut sooruzheniy Akademii nauk Uzbekskoy SSR (for Rachinskiy)
 4. Institut sel'skogo khozyaystva Akademii nauk Uzbekskoy SSR (for Gavrilenko)
- (Uzbekistan--Cotton growing)

BAYVAROVSKAYA, Yu.V.; MOGIBRAZHENSKAYA, A.I.; STARKOVA, L.M.; SEVAST'YANOVA,
Ye.S.

Obtaining a growth stimulant from the oils of Perm Province.
Nefteper. i neftekhim. no.7:8-9 '63 (MIRA 17:7)

1. Permский нефтеперерабатывающий завод.

SEVATI, I.U.E., inzh.

Dies for punching holes and flanging of nipples. Khim. i nef't.
mashinostr. no. 6336 D '64 (MIRA 18:2)

SEVBIM, V.I. (Uzhgorod).

Introduction of the mathematical concept of functions in the secondary school.
Mat.v shkole no.5:16-21 S-0 '53. (MLRA 6:9)

(Functions--Study and teaching)

SEVBO, G.S.; VOLKOV, L.A.

Low-frequency amplifier equipped with P4 triodes and used in
a servosystem. Poluprov.prib. 1 ikh prim. no.3:247-252 '58.

(MIRA 12:4)

(Transistor amplifiers)

SEVPO, I.P.

Method of automatic annotation of texts. NTI no.8:32-34 '65.
(MIRA 18:9)

BEVBO, P. I.

New automatic welding machines of the Institute of Electric Welding. Kiev, Izd-vo Akademii nauk Ukr. SSR, 1946. 31 p. (55-16513)

TK4660.S45

1. Electric welding. 2. Machinery, Automatic. I. Paton, VI., jt. au.

SEVBO, P. I.

Sevbo, P. I. "Self-propelled heads and the welding tractors of the Electric Welding Institute imeni Ye. O. Paton of the Academy of Sciences of the Ukrainian SSR", Trudy Vsesoyuz. konf-tsi po avtomat. svarke pod flyusom, 3-6 October 1947, Kiev, 1948, p. 173-85.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

SEVBO, P. I.

Avtosvarochnye ustanovki i prispособleniia; materialy dlia proektirovaniia. Pod. red.
E. O. Patona. Kiev, Mashgiz, 1949. 146 p. (chiefly diagrs.

At head of title: Institut elektrosvarki Akademii nauk USSR imeni akademika E. O. Patona.

Automatic welding installations and devices; materials for designing.

DLC: TS227.S45

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress,
1953.

SEVBO, P. I.

Sevbo, P. I. "Welding roll stands", Trudy po avtomat. svarke pod flyusom
(In-t elektrosvariki im. Patona), Collection 5, 1949, p. 11-19.

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

SEVEO, P. I.

Apparaty instituta elektrosvarki dlia avtomaticheskoi i poluavtomaticheskoi svarki pod fliuscm. Kiev, AN UkrSSR, 1951. 49 p. illus.

Machinery for automatic and semi-automatic welding under flux of the Institute for Electric Welding.

DLC: TK4660.S44

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SEVBO, P.I.

USSR/ Engineering - Welding equipment

Card 1/1 : Pub. 128 - 8/31

Authors : Sevbo, P. I., and Paton, B. E.

Title : Apparatus for automatic and semi-automatic welding, produced by Academician E. O. Paton's Institute of Electrical Welding at the Academy of Sciences of the USSR

Periodical : Vest. mash. 10, 36 - 43, Oct 54

Abstract : To facilitate and increase the production of welded components, the Academician E. O. Paton's Institute of Electrical Welding, designed and produced several types of automatic welding apparatus used for seam, bar, spot and arc welding. A description of the above mentioned apparatus is presented, together with the explanation of their operation and specifications. Illustrations; drawing.

Institution : The Academician E. O. Paton's Institute of Electrical Welding

Submitted :

112-57-7-14674

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 7, p 131 (USSR)

AUTHOR: Sevbo, P. I.

TITLE: Equipment of the Institute imeni Ye. O. Paton, for Automatic and Semi-Automatic Flux-Type Welding (Apparatura Instituta imeni Ye. O. Patona dlya avtomaticheskoy i poluavtomaticheskoy svarki pod flyusom)

PERIODICAL: Avtomatizatsiya tekhnol. protsessov v mashinostr. (Automation of Technological Processes in Machine Construction), Moscow, AS USSR, 1955, pp 170-188

ABSTRACT: The following flux-welding automatic equipment, developed at the Electric Welding Institute imeni Ye. O. Paton, is described: multipurpose, tractor-type, two-arc, and hose-type semiautomatic welders; vertical (rail and railless) automatic welders; and special automatic machines.

S. Z. Sm.

Card 1/1

SEVBC, P.I.

KAZIMIROV, A.A.; LEBEDEV, V.K.; PATON, B.Ye.; SEVBC, P.I.

Welding in the German Democratic Republic. Avtom.svar. 10 no.4:91-104
J1-Ag '57. (MIRA 10:10)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni
Ye.O.Patona Akademii nauk USSR.
(Germany, East--Welding)

PHASE I BOOK EXPLOITATION

SOV/2528

25(1)

Sevbo, Platon Ivanovich

Oborudovaniye dlya svarki pod flyusom (Submerged Arc Welding Equipment)
Kiyev, Mashgiz, 1958. 67 p. (Series: Biblioteka svarshchika)
10,000 copies printed.

Ed. of this volume: A.A. Kazimirov; Tech. Ed.: Ya. V. Rudenskiy; Editorial
Board: A.Ye. Asnis, A.A. Kazimirov, B.I. Medovar, B.Ye. Paton
(Resp. Ed.), and V.V. Podgayetskiy; Chief Ed. (Ukrainian Division,
Mashgiz): V.K. Serdyuk, Engineer.

PURPOSE: The booklet is intended for welders.

COVERAGE: In this booklet the author discusses the equipment for automatic and semiautomatic submerged arc welding, the essentials of the process and methods of mechanization. Advanced models of welding machines, welding carriages and heads, including multiarc, high-productive welders for various welding purposes, are described. Basic types of equipment for automatic machines and machines for current supply are also the subjects of discussion in this booklet. No personalities are mentioned. There are no references.

Card 1/ 2

PATON, B.Ye., akademik, doktor tekhn.nauk, laureat Leninskoy premii;
VOLOSHKEVICH, G.Z., kand.tekhn.nauk, laureat Leninskoy premii;
OSTROVSKAYA, S.A., kand.tekhn.nauk; DUDKO, D.A., kand.tekhn.nauk;
POKHODNYA, I.K., kand.tekhn.nauk; STERENBOGEN, Yu.A., kand.tekhn.
nauk; RUBLEVSKIY, I.N., inzh.; ZHEMCHUZHNIKOV, G.V., kand.tekhn.
nauk; ROZENBERG, O.O., inzh.; SEVBO, P.I., kand.tekhn.nauk; NOVIKOV,
I.V., inzh.; MEDOVAR, B.I., kand.tekhn.nauk; DIDKOVSKIY, V.P., inzh.;
RABKIN, D.M., kand.tekhn.nauk; TYAGUN-BELOUS, G.S., inzh.; ZARUBA,
I.I., kand.tekhn.nauk, retsenzent; GREBEL'NIK, P.G., kand.tekhn.nauk,
red.; TYNIANYY, G.D., red.

[Electric slag welding] Elektroshlakovaya svarka. Izd.2., ispr. 1
dop. Moskva, Gos.nauchno-tekh.izd-vo mashinostroit.lit-ry, 1959.
409 p. (MIRA 13:4)

1. AN USSR (for Paton).
(Electric welding)

25(1)

SOV/125-59-1-2/15

AUTHOR: Sevbo, P.I., Paton, V.Ye, Bel'fer, M.G.

TITLE: The Selection of Type and Design of Electric Slag-Welding Apparatus (O vybore tipa i konstruktsii apparatov dlya elektroshlakovoy svarki)

PERIODICAL: Avtomaticheskaya svarka, 1959, Nr 1, p 8-17 (USSR)

ABSTRACT: Present electric welding equipment does not satisfy modern requirements of USSR industry in regard to its facility of use and technical perfection. Its nomenclature is rather varied and, therefore, almost unsuitable for the organization of serial production. Welding equipment has to be perfected and standardized, and the five-years of experience gained in the production and use of electric slag-welding apparatus has to be taken into consideration. The universal welding apparatuses A-535 and A-501-M, developed by the institut elektrosvarki im. Ye.O. Patona (Electric-Welding Institute imeni Ye.O. Paton), help considerably to solve the above mentioned problems. Upon completion, they will be recommended for serial production in conjunction with a number of other welding apparatuses. The A-501-M

Card 1/3

25(1)

SOV/125-59-1-2/15

The Selection of Type and Design of Electric Slag-Welding Apparatus

apparatus(Fig 2), a further-developed model of the A-501-type apparatus, is designed for wire-electrode welding of straight-lined angle, seam and T-type metal fusions on metals measuring up to 150 mm in thickness. The apparatus moves directly over the work piece and is held in any position by two electromagnets connected with each other by means of an eccentric shaft. Upon rotation of the shaft, the magnets alternately move off from the welded body and operate along it toward the welding. The A-535-type universal welding apparatus (Fig 3) is designed for electric slag-welding of straight-lined and ring-butt joints of T-type and angular metal fusions (on metals measuring up to 500 mm in thickness) by means of wire electrodes. Up to 800 mm thick metals may be welded by plate-type electrodes. The apparatus welds double-sided and is operated

Card 2/3

25(1)

SOV/125-59-1-2/15

The Selection of Type and Design of Electric Slag-Welding Apparatus

with one, two, or three electrodes simultaneously. There is 1 chart, 2 photos, 1 table, 1 diagram, and 5 Soviet references.

ASSOCIATION: Institut elektrosvariki im. Ye.O. Patona A N UkrSSR
(Electric-Welding Institute imeni Ye.O. Paton, AS UkrSSR).

SUBMITTED: July 17, 1958

Card 3/3

22(1)

SOV/125-59-7-12/19

AUTHOR: Savko, P.I., Dubenko G.F., Dubovetskiy, V.Ya.

TITLE: Automatic Machine for Assembling and Welding of Hollow Balls

PERIODICAL: Avtomaticheskaya svarka, 1959, Nr 7, pp 27-30 (USSR)

ABSTRACT: In 1958, the Paton Institute of Electric Welding constructed an automatic machine for assembling and gas-electric welding of hollow steel balls. The balls consist of two semi-spheres of 20 cm in diameter; they are stamped of steel sheets. Such balls are used in big quantities by machine- and shipbuilding works. The weld connecting both semi-spheres should be very strong; it must stand a pressure of up to 50 atm. As a method of semi-sphere joining, gas-electric welding was selected in protective atmosphere of carbon dioxide. The processes of assembling, welding, as well as the auxiliary operations are performed by the new machine automatically. The parameters of the welding process are: 1) electrode wire 1 mm in diameter;

Card 1/1

30V/125-50-7-12/19

Automatic Machine for Assembling and Welding of Hollow Balls

2) speed of electrode movement 190 m/hour; 3) electric current - reverse polarity 130 amp DC; 4) welding arc voltage 18-20 volt; 5) speed of welding 40 m/hour; 6) carbon dioxide consumption 2-10 litres/minute; 7) time of welding 55 seconds. There are 1 diagram and 1 photograph

ASSOCIATION: Ordona trudovogo krasnogo znameni institut elektro-svarki imeni Ye.O. Patona AN USSR(Order of the Red Banner of Labor Institute of Electric Welding, AS UkrSSR, imeni Ye.O. Paton)

SUBMITTED: April 2, 1959

Card 2/2

SEVBO, P.I.; BEL'FOR, M.G.

The A-535 universal equipment for electric-slag welding. Biul.
tekh. ekon. inform. no.9:23-25 '59. (MIRA 13:3)
(Electric welding)

SEVBO, P.I.; PATON, V.Ye.; HEL'FOR, M.G.

Selecting the type and design of electric slag welding equipment.
Avtom.svar. 12 no.1:8-17 Ja '59. (MIRA 12:4)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.
Ye.O.Patona AN USSR.
(Electric welding--Equipment and supplies)

18(5,7), 25(5)
 AUTHOR: None Given
 TITLE: Scientific-Technical Conference on Questions of Welding Engineering
 PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 5 (74)
 PP 95-96 (USSR)

ABSTRACT: The scientific-technical conference on questions of welding engineering convened in Khar'kov from March 11-13, 1959. The following organizations convened in the conference: the Scientific-Technical State Committee of the Council of Ministers of the USSR, the Khar'kov Sovarkhoz, the Institute of Electric Welding Iseil Ye. O. Patona of the Academy of Sciences of the USSR, the Kiyev and Khar'kov Scientific-Technical KTO of the machine industry. After the introduction of the Chairman of CMTK USSR, G. P. Kostetukhin, the conference heard the report of Academician AS USSR, G. P. Paton "On the Reinroduction and production of Welding Engineering". After that, the following reports were heard at the conference: Member of Gos plan USSR

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D. I. Polvakov on establishing materials engineering base in the electric for the development of welding. Vice Chairman of Gos plan USSR, N. K. Kuznetsov on the introduction of welding engineering enterprises of the Dnepropetrovsk economic administrative district. Chief of Technical Administration of the Khar'kov Sovarkhoz, I. I. Kuzubov on the introduction of progressive welding engineering in the enterprises of the Sovmarkhoz. Construction Factory in introducing welding engineering. Candidate of Technical Sciences I. I. Prusain (Institute of Electric Welding Iseil Ye. O. Paton) on new works on automatic welding. Chief of Welding Department of the Novosibirsk Machine Factory Y. K. Kuznetsov on the use of electric slag welding in heavy machine building. Candidate of Technical Sciences, Yu. A. Tuzhik spoke on ceramic flux for welding of metal. Head of Welding Department of Khar'kov Turbine Factory S. I. Kuznetsov on the use of radioelectric welding in carbon dioxide. Candidate of Technical Sciences P. I. Savin on new equipment for welding, worked out by the Institute of Electric Welding Iseil Ye. O. Paton. Candidate of Technical Sciences I. K. Babayev (Institute of Electric Welding Iseil Ye. O. Paton) on new welding equipment worked out by the Institute of the Institute of VNIIB. P. I. Savin, Vice Director of the Institute of VNIIB, on recent achievements in the gas flame treatment of metals. Candidate of Technical Sciences N. P. Kazakov (Chair of Technology of Metals at Moscow Institute of the Meat and Milk Production) on a new method of vacuum diffusion welding.

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Card 3/3

18(7), 28(1)

SOV/125-12-6-9/14

AUTHOR: Sevbo, P.I., Candidate of Technical Sciences and
Shinlov, Ye.T., Engineer

TITLE: Machine for Automatic Welding of Oval Welds

PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 6 (75)
pp 79-83 (USSR)

ABSTRACT: The author presents the construction of a machine for the ring shaped, oval welds. The main parts of this machine are : (Fig 1) profiling wheel; electric drive with leading roller; supporting idle roller, the radius of which equals the smaller radius of the oval; limiting idle roller; balance weight; two supporting columns and frames. The profiling wheel has two running tracks: an outer one, on which rolls the leading roller of the electric drive mechanism, and an inner one, for the supporting idle roll. The outer running track appears as a closed oval, equal to the oval of the products. The inner running track runs parallel to the outer. There are 4 diagrams

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SOV/125-12-6-9/14

Machine For Automatic Welding of Oval Welds

ASSOCIATION: Ordena trudovogo krasnogo znameni institut elektro-
svarki imeni Ye.O. Patona AN USSR (Institute of Elec-
tric Welding imeni Ye.O. Paton AS UkrSSR of the Order
of the Red Banner of Labor).

SUBMITTED: April 7, 1959

Card 2/2

SEVBO, P.I.

PHASE I BOOK EXPLOITATION

SOV/5975

International Institute of Welding

XII kongress Mezhdunarodnogo instituta svarki, 29 iyunya - 5 iyulya 1959 v g.
Opatii (Twelfth Annual Assembly of the International Institute of Welding,
Opatija, June 29 - July 5, 1959) Moscow, Mashgiz, 1961. 359 p. 3000
copies printed.

Sponsoring Agency: Natsional'nyy komitet SSSR po svarke.

Ed. (Title page): G. A. Maslov, Docent; Translated from English, French,
and Serbo-Croatian by N. S. Aborenkova, K. N. Belyayev, E. P. Bogacheva,
L. A. Borisova, K. V. Zvegintseva, V. S. Minavichev, and M. M. Shelechnik;
Managing Ed. for Literature on the Hot-Working of Metals: S. Ya. Golovin,
Engineer.

PURPOSE: This collection of articles is intended for welding specialists and
the technical personnel of various production and repair shops.

Card 1/1

SOV/5975

Twelfth Annual Assembly (Cont.)

COVERAGE: The collection contains abridged reports presented and discussed at the Twelfth Annual Assembly of the International Institute of Welding. Reports deal with problems of welding and related processes used in repair work, repair techniques, and the problems arising in connection with the nature of the base and filler materials. Examples of repairing various parts are given, and the organization of repair operations in workshops and under field conditions is discussed. Economic aspects of welding and related processes as used in repair work are analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS: [Only Soviet and Soviet-bloc reports are given here]

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PART I. THE STUDY OF REPAIR-WORK TECHNIQUES
(PROCESSES, METHODS, PREPARATION, HEATING, AND
OTHER TYPES OF PROCESSING CONTROL)

Myuntsner, L. (Czechoslovakia). Welding of Broken Crankshafts

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Twelfth Annual Assembly (Cont.)

SOV/5975

Tesar, A., and Yu. Lombardini (Czechoslovakia). Isothermal and Ultracold Welding of Hardenable Steels

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Paton, B. Ye., G. Z. Voloshkevich, D. A. Didko, Yu. A. Sterenbogen, A. M. Makara, P. I. Sevbo, and D. O. Rozenberg (USSR). Electroslag Welding in Repairing Heavy Machines and Mechanisms

49

Frumin, I. I., A. Ye. Asnis, L. M. Gutman, G. V. Ksendzyk, V. A. Lapchenko, Ye. I. Leynachuk, Ye. N. Morozovskaya, I. K. Polkhodnya, V. P. Subbotovskiy, and F. A. Khomus'ko (USSR). Automatic Wear-Resistant Submerged-Arc Surfacing

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Snegon, K. (Poland). Restoration of Rolling-Mill Rolls, Crans Rollers, Forging Dies, and Shears by Arc Welding

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Card 3/9

S/135/60/000/006/001/007
A104/A029

AUTHOR: Sevbo, P.I., Candidate of Technical Sciences

TITLE: On Complex Mechanization and Automation of Assembling and Welding

PERIODICAL: Svarochnoye proizvodstvo, 1960, No. 6, pp. 1 - 6

TEXT: The author discussing the progress of overall mechanization and automation of welding suggests a method of determining the productivity of individual welding units and their influence on welding economy in general. In Formula (1) $m = \frac{T_1}{T_0}$ the influence factor (m) of the individual efficiency (T_1) on overall assembly and welding productivity (T_0) is expressed. Equation (2)

$$K = \frac{1}{1 - m + \frac{m}{n}}$$

shows the individual efficiency increase (n) and the resulting overall capacity increase (K). The productivity of various capacity units is determined by equation (3)

$$K = \frac{1}{1 - \sum m + \sum \frac{m}{n}}$$

Card 1/3

S/135/60/000/006/001/007
A104/A029

On Complex Mechanization and Automation of Assembling and Welding

of the Dnepropetrovskiy zavod im. Babushkina (Dnepropetrovsk Plant im. Babushkin),
GAZ (GAZ) automobile wheel welding and assembly line, KCTI-1 (KSP-1) chute welding
and assembly conveyer line consisting of two eight-arc automatic welders produced
in the Electric Welding Institute and in the "Svet Shakhtera" Plant and welders
for contact and spiral welding of tubes developed by the TsNIITMash. There is
1 table and 8 figures. ✓

ASSOCIATION: Institut elektrosvarki im. Ye.O. Patona AN UkrSSR (Electric Welding
Institute im. Ye.O. Paton of the AS UkrSSR)

Card 3/3

S/095/60/000/010/001/006
A053/A029

AUTHOR: Sevbo, P.I., Candidate of Technical Sciences

TITLE: Is Pipe-Expanding Really Useful?

PERIODICAL: Stroitel'stvo truboprovodov, 1960, No. 10, pp. 8-9

TEXT: The author opposes the idea that hydraulic pipe expanding strengthens the metal, is a good method of testing the strength and of calibrating pipes transversally and longitudinally. Expansion increases the yield point, but not the tensile strength; since the carrying capacity is based on the strength of the pipe and not on the yield point, expansion does in no way improve the pipe, on the contrary: it has been observed that an artificially increased yield point lowers the plasticity of the pipe and is apt to render the metal brittle. Expanding can cause local deformation which in turn can result in greater strain, excessive hardening and even cracks. Expanding is not a good method of testing pipes, since it is likely to open hidden cracks predisposing the pipe to breakage not only during service but also in the course of transportation and assembly. Pipes should undergo the same kind of hydraulic tests as boilers, viz., not exceeding the yield point. Expanding cannot be considered a suitable means for calibration. The author describes the operations of manufacture of pipes

Card 1/2

STEKHIN, P.S., inzh.; KOLESNIKOV, V.D., inzh.; SEVBO, P.I., kand.
tekhn. nauk, retsenzent; SINGOYEVSKIY, K.V., red.;
DEMKINA, N.F., tekhn. red.

[Mechanization and automation of the assembly and welding
operations in the manufacture of diesel locomotives] Mekha-
nizatsiia i avtomatizatsiia sborochno-svarochnykh rabot v
teplovozostroenii. Moskva, Mashgiz, 1963. 125 p.

(MIRA 16:9)

(Diesel locomotives) (Welding) (Automation)

CHVERTKO, A.I.; SEVBO, P.I., kand. tekhn. nauk, retsenzent;
KAPITONOV, I.M., inzh., red.; TAIROVA, A.L., red.izd-va;
MAKAROVA, L.A., tekhn. red.

[Flux handling equipment for automatic and semiautomatic
welding] Flusovaya apparatura dlia avtomaticheskoi i po-
luavtomaticheskoi svarki. Izd.2., dop. i perer. Moskva,
Mashgiz, 1963. 206 p. (MIRA 17:2)

SEVERO, Platon Ivanovich; PATON, V.Ye., kand. tekhn. nauk, otv. red.
SYTHNIK, N.K., red.

[Overall mechanization and automation of welding processes]
Kompleksnaia mekhanizatsiia i avtomatizatsiia svarochnykh
protssessov. Kiev, Naukova dumka, 1964. 86 p.
(MIRA 17:12)

PODOLIA, N.Y.; SAZONOV, V.Ye.; SEVED, P.I.

Perplexing book. Avtom. svar. 17 no.9:91-92 S '64.

(MIRA 17:10)

SEVBO, P.I.; MALICHENKO, Ye.F.

Conference on the automation of machine manufacturing processes.
Avtom. svar. 17 no.9:93 5 '64. (MIRA 17:10)